

Bellwork: 4/17/13

Find the requested information for the function below. Then graph:

$$y = \frac{4x-6}{x+3}$$

same

$$x+3=0$$

$$4x-6=0$$

$$-\frac{6}{4} = -2$$

$$4x=6$$

$$x=\frac{6}{4}$$

$$\text{num}=0 \quad \left(\frac{3}{2}, 0\right) (1.5, 0)$$

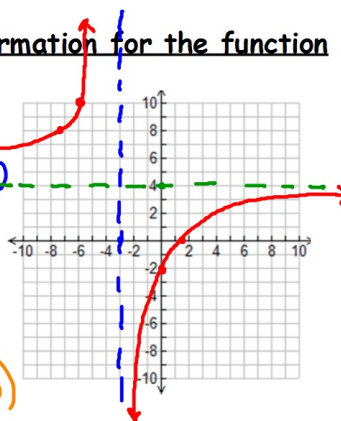
$$x\text{-int: } \underline{\frac{3}{2}, 0}$$

$$y\text{-int: } \underline{(0, -2)}$$

$$\text{den}=0 \quad \underline{x=-3}$$

$$\text{VA: } \underline{x=-3}$$

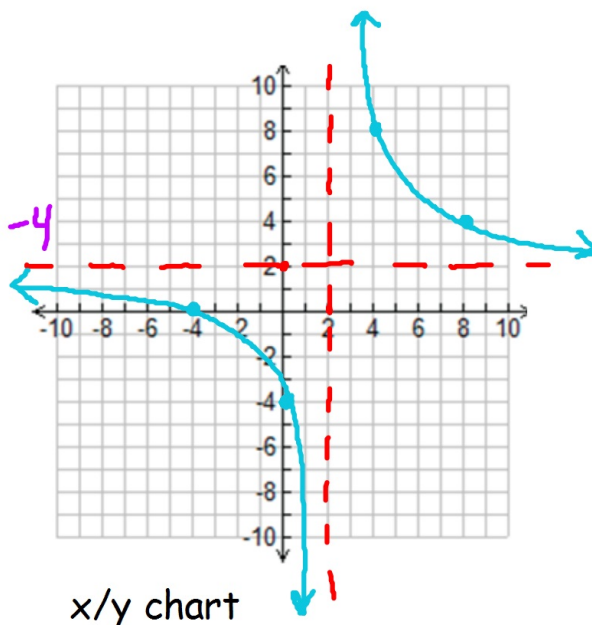
$$\text{HA: } \underline{y=4}$$



3) $y = \frac{2x+8}{x-2}$ *same*

$2x+8=0$
 $2x=-8$
 $x=-4$

$\frac{2(0)+8}{0-2} = \frac{8}{-2} = -4$



num=0 $(-4, 0)$
 x-int:

$x=0$
 y-int: $(0, -4)$

den=0 $x=2$
 VA:

rules $y=2$
 HA:

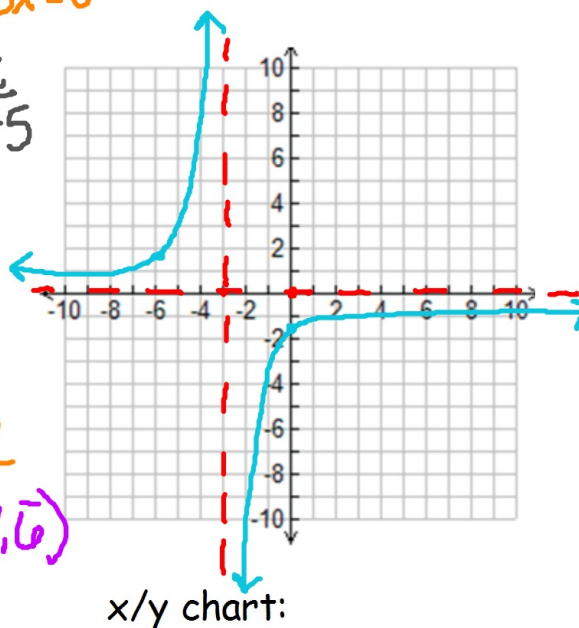
first

4) $y = \frac{-5}{x+3}$

$3x=0$
 $y = \frac{3x}{x-5}$

$-5=0$
 False

$\frac{-5}{0+3} = -\frac{5}{3}$



num=0 (none)
 x-int:

$x=0$
 y-int: $(0, -5/3) = (0, -1.6\bar{6})$

den=0 $x=-3$
 VA:

rules $y=0$
 HA:

first

Homework: 4/17/13

p. 11-12 - ALL

